

CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

25X1

COUNTRY

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Germany (Russian Zone)

DATE DISTR.

CD NO.

16 April 1952

SUBJECT

Development of Various Instruments by

NO. OF PAGES

Mechanik Askania VVB VEB

TREMOT CONT

NO. OF ENCLS.

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SUPPLEMENT TO REPORT NO.

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THIS IS UNEVALUATED INFORMATION

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- 1. At Mechanik Askania VVB VEB, at Teltow near Berlin, work is progressing slowly on the design of a machine for balancing automatically gyroscope rotors. Experiments have shown that it is impracticable to sputter metal onto the rotor in vacuo, and attempts are now being made to sputter at atmospheric pressure. A spark discharge from a condenser, controlled by a Tesla transformer is being used. Great difficulty is being encountered in designing a mechanism which will interpret correctly the oscillations of the unbalanced rotor and control the sputtering at the correct places. Exeriments in this connection, and research into the quantities of metal deposited by sputtering are being conducted by Boer in the Second Physical Institute, Humboldt (Berlin) University. Dipl. Ing. Hanebuth, Dipl. Ing. Behrmann, Dipl. Ing. Rother and Neubert are working on these problems in the Askania factory. The project is known as AM 6000 (AM = Auswucht-Maschine). The Russians show considerable interest in the progress of the work.
- 2. The factory is trying to develop an improved version of the Thompson sounding
- 3. The factory has almost perfected a new type of portable gravimeter. The vertical movements of a float submerged in silicon oil and kept in position by a quartz spring vary the distance between the two plates of a condenser. The capacity of this condenser is therefore a measure of the gravitational field strength. The condenser is zeroed by adjusting the current through an electromagnet.

CLASSIFICATION

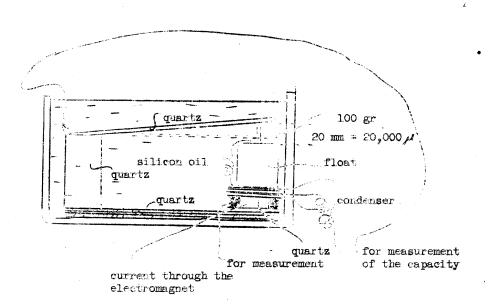
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Attachment

Hydrostatic-magnetic Gravimeter



1 milligal (sic) = 10^{-6} 20 mm = $20 \, \mu_{c} \, \mu_{c}$ (sic)

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